		Control of the contro	25X1	
		2006/08/08 : CIA-RDP82-00457I 以下しい ちょこうとつ	R0 <mark>11500030008-7</mark>	25X1
\$ 3,585 \$P\$	Germay (Russian Zone)		mil profit of April .	<u>)</u>
were to the	old High Francy Tale	- Production and Development of Radio Tobas at 1973 Francisco Talecton Talectons Flack in		05)//
01.4(3	The production of the second s	25X1	NO OF ENCES 12 (ake	25X1 sen)
THIS ODCUEEN FURN	AIRS 1900MATION AFFEC SHE THE HATGOAL OFFICE	2		
3" WE UNIVED STATE	ES MITTAIN THE BEARING OF ITTAIN TO ENCIRON THE SECTIONS FOR SOME SECTION OF RESERVOIR OF THE STATE IS PRODUCTED OF THE STATE IS PRODUCTED OF THIS FORM IS PRODUCTED.	*阔, THIC IS LINEVAL	LUATED INFORMATION	25X1

- Orders handled at the plant fall into four categories, i.e. state orders, expert orders, and Soviet and German development orders. The T 2-program, which involves the manufacture of \$10,000 complete television sets is a state order. The execution of such state orders is supervised by a special Russian commissioner, who is responsible for the filling of the order concerned. Delivery terms fixed for state orders must be net at any cost. All enterprises in the U.D.S.R. and the satellite states can be sub-contracted when state orders are involved. Expert orders are placed by the Soviet Zone Trade Central (DHZ). Soviet development orders are given by the Soviet Linistry of Communications Equipment. The Soviet representative of this Ministry at the plant is Chestrov (fnu), who is not assigned to the SAG Kabel. German development orders are given by the Central Office for Research and Technology of the State Planning Commission. Chestrov must be informed regarding all German development activities. (1)
- 2. The Soviet plant management is not authorized to make decisions in technical matters. All questions related to technical excisions or the quality of equipment manufactured at the plant are referred to Moscow for decision.

  Development orders invalved the delivery of the following equipment and records:
  - a. Telecommunications sets: Five prototype sets and drawings, two sets of tools, technical specifications, operating instructions and testing instructions.
  - b. High-frequency and low-frequency equipment: Except for sets of tools, the same natural as mentioned under a, above must be furnished.
  - e. Radio tubes: Prototype tubes, drawings inclusive of tool drawings, technical specifications, operating and testing instructions, and a description of all testing equipment.

Experience to date shows that production orders for specific items of equipment are given only two years after completion of their development. Exact copies of the prototype sets are demanded evental close have become obsolete in the of new inventions developed in the mountains.

	可一些可使的知识	SCRE	The second secon	egini se ne vegine,
STATE STATE	X NSW2	DISTRIBUTION	.	
ARMY # AIR #	<b>&gt;</b> < FGi			1

SECRET

25X1

**...** 2 ...

- 4. In the field of administration, the Soviet plant management has the final say on all personnel to be hired. All contracts with personnel drawing monthly salaries upward of 500 castworks must be approved by the Aussians.
- The T2 type television set, allegedly costs 900 rubles or the equivalent of about 1,900 eastmarks in the U.S.S.R. The calculated cost price of the IK 23 type image tule was 140 eastmarks; however, the actual cost price in 1)/1 was 108 eastmarks. The television tube sells at 212 eastmarks.
- 6. In January 1952, a 10-KW triode fitted with an external angle similar to the RS 720 type tube was 60 percent developed, a 300-Matt tetrode was 50 percent developed, while the 1-KW ultra-short wave 050 2730 type triode; fitted with external angle and a spiral heater, was condicted. By improving the mutual conductance to capacitance ratio of the 636 type ultra-short wave dual triode; this tube is to reach the quality level of the U.S. tubes. For all levelopment work on ultra-short wave tubes, the Russians have so far demanded a wave length limit of 1.2 meters.
- 7. In 1952, the metal-ceramic tubes are to be provided with an improved L-cathode (2) Previously, there were difficulties regarding the manulacture of the cathode lid and the seeling of it to the body of the cathode. Since it became brown that the Dutch Philips Ladio Firm is using rhenium for special cathodes, the derman engineers charged with the development of metal-ceramic tubes asked that rhenium be produced. The use of this naterial for cathode lids is to facilitate the sealing of the lid to the body of the cathode and to improve the diffusion of the emitting material through the cathode lid; thus increasing the lifetime of these tubes from 200 to 1,000 running hours. Both the broduction of rhenium, Professor Loutewein (Inn) of the liming Academy in Freiberg is said to have been ordered to develop methods for the production of rhenium in Caxony.
- 8. Krischke (fnu, and Palisch (fnu) had complete; the preliminary experiments for the development of a straight acceleration tube for 1 million electron volts. After the two gentlemen had left the firm, the development of the tule had to be continued at the Heinrich Hertz Institute. I grid keying for this tube was being manufactured at the Oberschoeneweide plant in January 1972. The management of the plant also promised to build for the tube an impulse-keyed magnetron with an impulse output of 1 megawatt designated 113 100.
- 9. Prior to mid-1991, P2 iron was procured in Trior via Next Berlin. Then these deliveries were stored. the plant tried to produce the material required by cold rolling, Good quality aluminum foils were delivered by a plant in Ammendori (N 52/D 92), and CL 10 Al type sheet iron from Hettstedt (N 52/D 6A), Nowever, because of excessive discharge of cas, only 10 percent of this material was usable. The quantity of P2 iron produced in Berlin-Derscheenevoids was therefore inadequate for the fulfillment of the T2 program, for the production of P 50 type tubes, 50,000 anode plates had to be bought at the nationalized radio engineering plant in Erfurt. Originally, these plates were compared for the production of EL 401 type tubes. The supply of P 2 iron for the 1952 production program is not yet guaranteed.

25X1

SECHET

- 10. In 1951, mica was bought at the Schorb & Commany firm at 3 Kottbusor Ufer, Berlin SO 36 and carried to the telecommunications engineering plant in Berlin-Oberschoeneweide in brief cases, Of the first shipment of 300 kg of mica delivered by China, only 30 kg were unable for the production of radio tubes. The quality of a sample of mica sent by the U.S.S.R. was good. The U.S.S.R. has promised to furnish all the mica required in 1952. (3)
- U.c. Barium acetate required for the manufacture of stabilizers was delivered by the Venditor Firm in Troisdorf near Cologne. Den these deliveries were discontinued, the production of stabilizers had to be stopped in Sewtermar 1951. Experiments made in an effort to produce this material in Oberschoeneweide caused an explosion. (4)
- 12. The TBN sector of the telecommunications engineering plant is to be transferred to the building of the Knorr Bremse Flant (an enterprise engaged in the manufacture of railroad brake equipment) at 9-17 Name Pahnhofstrasse, Ferlin O 112; in the first quarter of 19/1, while the development department is to move those in the third quarter of this year. This measure is designed to make available More floor space for the manufacture of radio tubes.

Comments,

25X1

- (1) Chestrov is montioned for the first tile as the representative of the Ministry of Communications Equipment at the Perlin-Oberschoeneweide plant,
- (2) For schematic diagram of the L-cathode, see Annex 3.

(3) The mica delivered by China proved to be unuable at the nationalized radio

engineering plant in Ariut.

(4) The exact name of the firm is Projector Kunststoffe, Venditor, Flastics
Department of the DaAsCo, Trojector near Colome, The firm has a branch plant at Hauerstrasse 83/84 in Larlin 7 8.

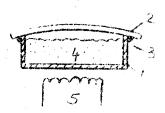
25X1

CUCRET

SECTAT/

25X1

## Schematic Diagram of the L Cathode Manufactured in Berlin-Oberselmenewoide



## Legend:

- 1 Cathode body of nickel
- 2 Cathode lig of tungsten or thereful
- 3 Sealing of cathode body to lid
- 4 Maitting materials berium thorium
- 5 Reater